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(54) Title: GAS SEPARATION APPARATUS

(57) Abstract: A gas separation apparatus comprising: - a first chamber; - a second chamber, separated from the first chamber by a porous partition; - a first inlet for conveying a mixture of components to the first chamber; - a first outlet for discharging the remainder of the mixture of components after at least part of the first component has been removed from the first chamber; - a second inlet for conveying a sweeping component into the second chamber; - a second outlet for discharging a mixture of sweeping component and diffused first component from the second chamber, and - a pressure equilibrating device connecting and mediating between the first and the second chamber; and a separation process using the separation apparatus.

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